

5 METHODS AND APPARATUS FOR SIMULTANEOUSLY
COMMUNICATING VOICE AND DATA IN AN ANALOG CORDLESS
TELEPHONE SYSTEM

ABSTRACT OF THE DISCLOSURE

10 A method of simultaneously communicating voice and data on the
same channel in an analog cordless telephone system involves generating an
analog signal from an audible voice signal during a cordless telephone call;
generating a frequency shift keying (FSK) signal from digital data having a
nominal frequency of about 20 KHz; summing the analog signal and the FSK
15 signal to produce a composite analog and digital signal; modulating a radio
frequency (RF) carrier with the composite analog and digital signal to
produce a modulated RF carrier; and transmitting the modulated RF carrier.
On the receiving end, the method involves receiving the modulated RF
carrier during the call; demodulating the modulated RF carrier to reproduce
20 the composite analog and digital signal; bandpass filtering the composite
analog and digital signal to separate the analog signal and the FSK signal
from one another; reproducing the audible voice signal from the analog
signal; and detecting the digital data from the FSK signal and processing the
digital data for display and control.

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